



**Heritage review request - inquiry about wetland species near Crystal City**  
Emily Clancy to: Nicole Moran

05/08/2012 09:24 AM

History: This message has been forwarded.

[attachment "Plattin Creek Fish List.xlsx" deleted by Nicole Moran/R7/USEPA/US]  
[attachment "Moran\_Jefferson\_EPArequest.pdf" deleted by Nicole Moran/R7/USEPA/US]  
Ms. Moran,

I have attached the Heritage Review that you requested for Jefferson County – inquiry about wetlands species near Crystal City.

Attached is also a list of fish we have sampled from Plattin Creek during 2002 and 2008 RAM samples. All of the information comes from reaches upstream from the Boyce Lane crossing on Plattin Creek which is significantly upstream from the area in question. Plattin Creek transitions from a lazy floodplain tributary below I-55 (area of concern) to an Ozark border stream upstream from I-55 where we sample. The lower reach consists of any number of large river species that utilize the tributaries at least part of the year. We typically don't sample all of those species in the wadeable reaches where we conduct RAM sampling. Perhaps this data will still be useful.

Please reply to this message to confirm receipt, and let me know if I may otherwise assist.

*Emily*

Emily Clancy | Heritage Review Coordinator | Resource Science Division | Missouri Department of Conservation  
2901 W. Truman Blvd. | Jefferson City, MO 65109  
573-522-4115 ext.3182

RCRA



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# Missouri Department of Conservation Heritage Review Report

May 8, 2012 -- Page 1 of 2

Resource Science Unit  
P. O. Box 180  
Jefferson City, MO 65102  
Prepared by: Emily Clancy  
Emily.Clancy@mdc.mo.gov  
(573) 522-4115 ext. 3182

Nicole Moran  
Moran.nicole@epa.gov

|                  |  |
|------------------|--|
| Project type:    | EPA request  |
| Location/Scope:  | Latitude 38.206700 / Longitude -90.392328                |
| County:          | Jefferson  |
| Query reference: | Plant/animal species that are adversely affected by fill |
| Query received:  | April 27, 2012   |

**This NATURAL HERITAGE REVIEW is not a site clearance letter. Rather, it identifies public lands and sensitive resources known to have been located close to and/or potentially affected by the proposed project.** On-site verification is the responsibility of the project. Heritage records were identified at some date and location. This report considers records near but not necessarily at the project site. Animals move and, over time, so do plant communities. To say "there is a record" does not mean the species/habitat is still there. To say that "there is no record" does not mean a protected species will not be encountered. These records only provide one reference and other information (e.g. wetland or soils maps, on-site inspections or surveys) should be considered. Look for additional information about the biological and habitat needs of records listed in order to avoid or minimize impacts. More information is at <http://mdc.mo.gov/discover-nature/places-go/natural-areas> and [mdc4.mdc.mo.gov/applications/mofwis/mofwis\\_search1.aspx](http://mdc4.mdc.mo.gov/applications/mofwis/mofwis_search1.aspx). Contact information for the department's Natural History Biologist is online at <http://mdc.mo.gov/contact-us>.

## Level 3 (federal-listed) and Level 2 (state listed) issues:

### Records of listed species or critical habitats:

Heritage records identify no wildlife preserves, no designated wilderness areas or critical habitats, no federal or state endangered-list species records within one mile of the site.

FEDERAL LIST species/habitats are protected under the Federal Endangered Species Act. **Consult with the U.S. Fish and Wildlife Service** (101 Park Deville Drive Suite A, Columbia, Missouri 65203-0007; 573-234-2132).

## General recommendations related to this project or site, or based on information about the historic range of species (unrelated to any specific heritage records):

- Indiana bats (*Myotis sodalis*, federally and state listed "endangered") may occur in this area. These mammals hibernate during winter months in caves, in Missouri primarily in the southern half of the state. They are found in summer months, primarily north of the Missouri River, roosting and raising young under the bark of trees in riparian forests and upland forests near perennial streams. During project activities, avoid degrading stream quality and where possible leave snags standing and preserve mature forest canopy. If large trees with nesting cavities or loose bark need to be removed by your project, that should be done between November and March. Additional information to incorporate in planning documents is available at <http://mdc.mo.gov/110>.
- Jefferson county has known karst geologic features (e.g. caves, springs, and sinkholes, all characterized by subterranean water movement). Few karst features are recorded in heritage records, and ones not noted here may be encountered at the project site or affected by the project. Cave fauna (many of which are species of conservation concern) are influenced by changes to water quality, so check your project site for any karst features and make every effort to protect groundwater in the project area. See [http://mdc.mo.gov/nathis/caves/manag\\_construc.htm](http://mdc.mo.gov/nathis/caves/manag_construc.htm) for best management information. Streams in the area should be protected from soil erosion, water pollution and in-stream activities that modify or diminish aquatic habitats. Best management recommendations relating to streams and rivers may be found at <http://mdc.mo.gov/79>.
- Invasive exotic species are a significant issue for fish, wildlife and agriculture in Missouri. Seeds, eggs, and larvae may be moved to new sites on boats or construction equipment, so inspect and clean equipment thoroughly before moving between project sites.
  - ♦ Remove any mud, soil, trash, plants or animals from equipment before leaving any water body



or work area.

- ♦ Drain water from boats and machinery that have operated in water, checking motor cavities, live-well, bilge and transom wells, tracks, buckets, and any other water reservoirs.
- ♦ When possible, wash and rinse equipment thoroughly with hard spray or HOT water ( $\geq 104^{\circ}\text{F}$ , typically available at do-it-yourself carwash sites), and dry in the hot sun before using again.

*These recommendations are ones project managers might prudently consider based on a general understanding of species needs and landscape conditions. Heritage records largely reflect sites visited by specialists in the last 30 years. Many privately owned tracts have not been surveyed and could host remnants of species once but no longer common.*



# Plattin Creek Fish List - MDC St. Louis Region - Contact Danny B

| Species                | 2002   |                    | 2008   |                    |
|------------------------|--------|--------------------|--------|--------------------|
|                        | Totals | Relative Abundance | Totals | Relative Abundance |
| grass carp             | 1      | 0.0%               |        | 0.0%               |
| common carp            | 1      | 0.0%               |        | 0.0%               |
| creek chub             | 31     | 1.3%               | 3      | 0.1%               |
| horneyhead chub        | 21     | 0.9%               | 36     | 1.3%               |
| bluntnose minnow       | 100    | 4.2%               | 289    | 10.8%              |
| fathead minnow         |        | 0.0%               | 1      | 0.0%               |
| ozark minnow           | 184    | 7.7%               | 270    | 10.1%              |
| southern redbelly dace |        | 0.0%               | 1      | 0.0%               |
| striped shiner         | 111    | 4.6%               | 125    | 4.7%               |
| sand shiner            | 8      | 0.3%               | 11     | 0.4%               |
| bleeding shiner        | 340    | 14.2%              | 488    | 18.3%              |
| stoneroller spp.       | 648    | 27.0%              | 754    | 28.2%              |
| cyprinella spp.        | 19     | 0.8%               | 4      | 0.1%               |
| bigeye shiner          | 10     | 0.4%               | 60     | 2.2%               |
| northern hogsucker     | 34     | 1.4%               | 34     | 1.3%               |
| black redhorse         | 74     | 3.1%               | 48     | 1.8%               |
| golden redhorse        | 85     | 3.5%               | 32     | 1.2%               |
| slender madtom         | 17     | 0.7%               | 7      | 0.3%               |
| yellow bullhead        | 11     | 0.5%               | 11     | 0.4%               |
| blackstripe topminnow  | 22     | 0.9%               | 1      | 0.0%               |
| blackspotted topminnow | 1      | 0.0%               | 11     | 0.4%               |
| northern studfish      | 21     | 0.9%               | 11     | 0.4%               |
| brook silverside       | 1      | 0.0%               |        | 0.0%               |
| mosquitofish           | 13     | 0.5%               |        | 0.0%               |
| mottled sculpin        | 20     | 0.8%               | 52     | 1.9%               |
| banded sculpin         | 11     | 0.5%               | 2      | 0.1%               |
| smallmouth bass        | 20     | 0.8%               | 16     | 0.6%               |
| largemouth bass        | 10     | 0.4%               | 7      | 0.3%               |
| longear sunfish        | 166    | 6.9%               | 126    | 4.7%               |
| rock bass              | 76     | 3.2%               | 54     | 2.0%               |
| warmouth               |        | 0.0%               | 2      | 0.1%               |
| redeer sunfish         | 4      | 0.2%               |        | 0.0%               |
| bluegill               | 43     | 1.8%               | 42     | 1.6%               |
| green sunfish          | 65     | 2.7%               | 40     | 1.5%               |
| hybrid sunfish         | 1      | 0.0%               |        | 0.0%               |
| logperch               | 28     | 1.2%               | 2      | 0.1%               |
| johnny darter          | 1      | 0.0%               | 6      | 0.2%               |

|                     |      |        |      |        |
|---------------------|------|--------|------|--------|
| orangethroat darter | 47   | 2.0%   | 88   | 3.3%   |
| rainbow darter      | 146  | 6.1%   | 28   | 1.0%   |
| fantail darter      | 10   | 0.4%   | 9    | 0.3%   |
| freshwater drum     | 1    | 0.0%   |      | 0.0%   |
| Totals              | 2402 | 100.0% | 2671 | 100.0% |

rown at danny.brown@mdc.mo.gov

| Site         | 2002 | 2008 |
|--------------|------|------|
| Huber        | 89   | 74   |
| Lower Laguna | 90   | 77   |
| Pizzo        | 82   | 90   |
| Snyder       | 89   | 82   |
| Upper Laguna | 82   | 84   |
| Average      | 86   | 81   |

|                 |    |    |
|-----------------|----|----|
| Native Species  | 35 | 34 |
| Native Families | 10 | 7  |